**Grade 12 Calorimetry Lab Marking Scheme**

Lab Eval /25

Title/Title Page 0 1

Title Page is present along with a title for the lab – lack of creativity will not lose marks although creativity potentially can gain marks

Introduction 0 1 2

Introduction is 1-2 pgphs, introduces the topic at a moderate level of complexity and may explain about hot/cold packs/enthalpy. Must be easy to read(make sense!)Marks deducted for poor spelling/grammar/syntax

Purpose 0 1

Explains the reason for doing the lab. Is expressed as a clear purpose statement

“The purpose of this lab is to find the identity of the mystery salt using calorimetric techniques

Experimental Design 0 1 2 3

A readable summary of purpose/methods combined that explains what we are doing and why we are doing it – broken down moderately into steps

Calculations 0 1 2 3

Calculations are legible (-1) and intuitive, showing all formula and units used.

Procedure/Materials 0 1 2 3

Procedure is easy to follow (-1) written in past passive tense (-1) and uses exact quantities (-1). If not numbered and in past passive, must be complete and easy to read (-0.5 for not reading instructions)

Materials list may separate into materials/apparatus but doesn’t need to. Should include all materials and amounts. (-1)

Observations 0 1 2

Observation table must measure the proper data in the proper units (mass of water) (-0.5) to the proper number of DP (-0.5) and must have at least 3 repetitions of the experiment.

Results/Correct ID 0 1 2 3 4

Correctly identify salt (-1) and show calculations. Compare experimental to actual value (-1) Proper thermochemical Rxn (worth 2)

Discussion 0 1 2 3 4 5

Useful applications (-1.5 or 2) Best hot/cold(-1) 3 expt’al errors (1.5 or 2for all errors) how it would have affected results (-1)

Neatness and presentation 0 1

Point if the lab is written VERY neatly or typed up. If the text is the same font and overall the assignment looks appealing to read.